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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,264	01/21/2004	Kia Silverbrook	RRA11US	1034
24011 7590 09/30/2008 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA				
EXAMINER				
FIDLER, SHELBY LEE				
ART UNIT		PAPER NUMBER		
2861				
MAIL DATE		DELIVERY MODE		
09/30/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/760,264

Applicant(s)

SILVERBROOK, KIA

Examiner

SHELBY FIDLER

Art Unit

2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 May 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date 5/4/2008
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Responsive Office Action

This Office Action is responsive to Applicant's remarks and amendments filed 5/8/2008.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6474776 B1) in view of Bolash et al. (US 6183063 B1).

Regarding claim 1:

Murray discloses a printer cartridge (inkjet cartridge 10) for an inkjet printer for printing onto a sheet of media fed through the printer in a media feed direction (col. 1, lines 12-15), the printer cartridge comprising:

printing fluid storage (reservoir 26);

a printhead (jet plates 20, 22) in fluid communication with the printing fluid storage (col. 6, lines 52-55), the printhead having an elongate array of nozzles (Fig. 2);

a first electrical connector (flex circuit 16) in electrical communication with the printhead (col. 5, lines 26-29) and disposed adjacent a first end of the elongate array of

nozzles of the pagewidth printhead (Fig. 1) for mating with a first corresponding connector (electrical contact 43) of the inkjet printer (col. 7, lines 7-12),

wherein, during use, the first electrical connector engages the first corresponding connector with a contact force that is parallel to the longitudinal extent of the elongate array of nozzles such that a longitudinally compressive force acts on the printer cartridge when it is installed in the printer (col. 7, lines 13-20 & Fig. 5).

Murray does not expressly disclose that the printhead is a pagewidth printhead such that the array of nozzles extends transverse to the media feed direction.

However, Bolash et al. disclose a printer cartridge (cartridge 11) comprising a pagewidth printhead (printhead 12) that has an array of nozzles extending transversely to a media feed direction (Fig. 1A).

Therefore, at the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Murray's printer cartridge to comprise a pagewidth printhead, such as that disclosed by Murray. Motivation for doing so, as provided by Murray, is to provide a printer cartridge that is capable of operating with reduced power consumption while still fully printing on the media (col. 2, lines 37-41).

Regarding claim 2:

Murray as modified by Bolash et al. disclose all the limitations of claim 1, and **Murray also discloses** that the cartridge comprises a second electrical connector (flex circuit 18) disposed adjacent a second end of the elongate array of nozzles (Fig. 1) for mating with a second corresponding connector (electrical contact 44) of the inkjet printer (col. 7, lines 7-12),

wherein, during use, the second electrical connector engages the second corresponding connector with a contact force that is parallel to the longitudinal extent of the elongate array of nozzles (col. 7, lines 13-20 & Fig. 5).

Regarding claim 3:

Murray as modified by Bolash et al. disclose all the limitations of claim 2, and **Murray also discloses** that the printing fluid storage, printhead, and first and second electrical connectors are attached to a body of the printer cartridge (Fig. 1).

Regarding claim 4:

Murray discloses a printer cartridge (inkjet cartridge 10) for an inkjet printer for printing onto a sheet of media fed through the printer in a media feed direction (col. 1, lines 12-15), the printer cartridge comprising:

an elongate body (housing 12) including printing fluid storage (reservoir 26) and adapted to be received within the inkjet printer (col. 7, lines 23-28);

a printhead (jet plates 20, 22) attached to the body (Fig. 1) and in fluid communication with the printing fluid storage (col. 6, lines 52-55); and

first and second electrical connectors (flex circuits 16, 18) in electrical communication with the printhead (col. 5, lines 26-33), the first and second connectors attached to the elongate body (Fig. 1) and disposed adjacent opposite ends of the printhead for mating with corresponding first and second electrical connectors of the inkjet printer (Fig. 5),

wherein, during use, the first and second electrical connectors engage with the corresponding first and second electrical connectors of the inkjet printer with a contact

force that is parallel to the longitudinal extent of the elongate body such that a longitudinally compressive force acts on the printer cartridge when it is installed in the printer (col. 7, lines 13-20 & Fig. 5).

Murray does not expressly disclose that the printhead is a pagewidth printhead such that the cartridge body extends transverse to the media feed direction.

However, Bolash et al. disclose a printer cartridge (cartridge 11) comprising an elongate body (Fig. 1) and a pagewidth printhead (12), wherein the elongate body extends transversely to a media feed direction (Fig. 1A).

Therefore, at the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Murray's printer cartridge to comprise a pagewidth printhead, such as suggested by Murray. Motivation for doing so, as provided by Murray, is to provide a printer cartridge that is capable of operating with reduced power consumption while still fully printing on the media (col. 2, lines 37-41).

Response to Arguments

Applicant's arguments, see page 4, filed 5/8/2008, with respect to the rejection(s) of claim(s) 1 and 4 under 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Murray and Bolash et al. A person of ordinary skill in the art, after reading these teachings, would have found it obvious to produce a pagewidth inkjet cartridge having a first and second electrical contacts

adjacent first and second ends of the cartridge, such that a longitudinally compressive force acts on the printer cartridge when its installed in the printer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHELBY FIDLER whose telephone number is (571)272-8455. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Luu can be reached on (571) 272-7663. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LUU MATTHEW/
Supervisory Patent Examiner, Art Unit 2861

/Shelby Fidler/
Examiner, Art Unit 2861